FUJITSU

PRIMERGY TX100 S3p

System configurator and order-information guide

May 2012

Contents

Instructions
Configuration diagram
Configurator
- 0 System software
- I Basic unit
- II Processor
- III Memory
- IV Graphics
- V Accessible drives
- VI RAID Controller
- VII Hard disk drives
- VIII Communikation/Network
- IX Miscellaneous
- X Country specific power cords

Change report

PRIMERGY Server

Instructions

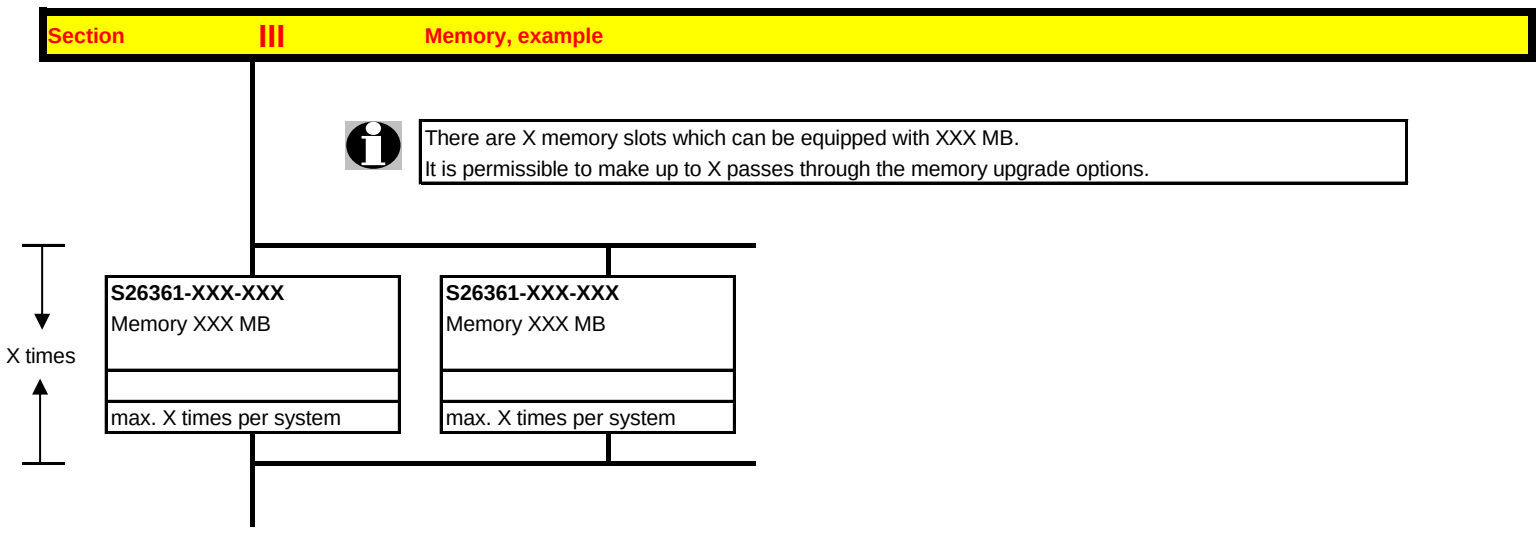
This document contains basic product and configuration information that will enable you to configure your system via PC-/ System-Architect.

Only these tools will ensure a fast and proper configuration of your PRIMERGY server or your complete PRIMERGY Rack system.

You can configure your individual PRIMERGY server in order to adjust your specific requirements.

The System configurator is divided into several chapters that are identical to the current price list and PC-/ System-Architect

Please follow the lines. If there is a junction, you can choose which way or component you would like to take. Go through the configurator by following the lines from the top to the bottom.



In one chapter you can only select as many components (here 4x) as the arrow indicates.

Please note that there are information symbols which indicate necessary information.

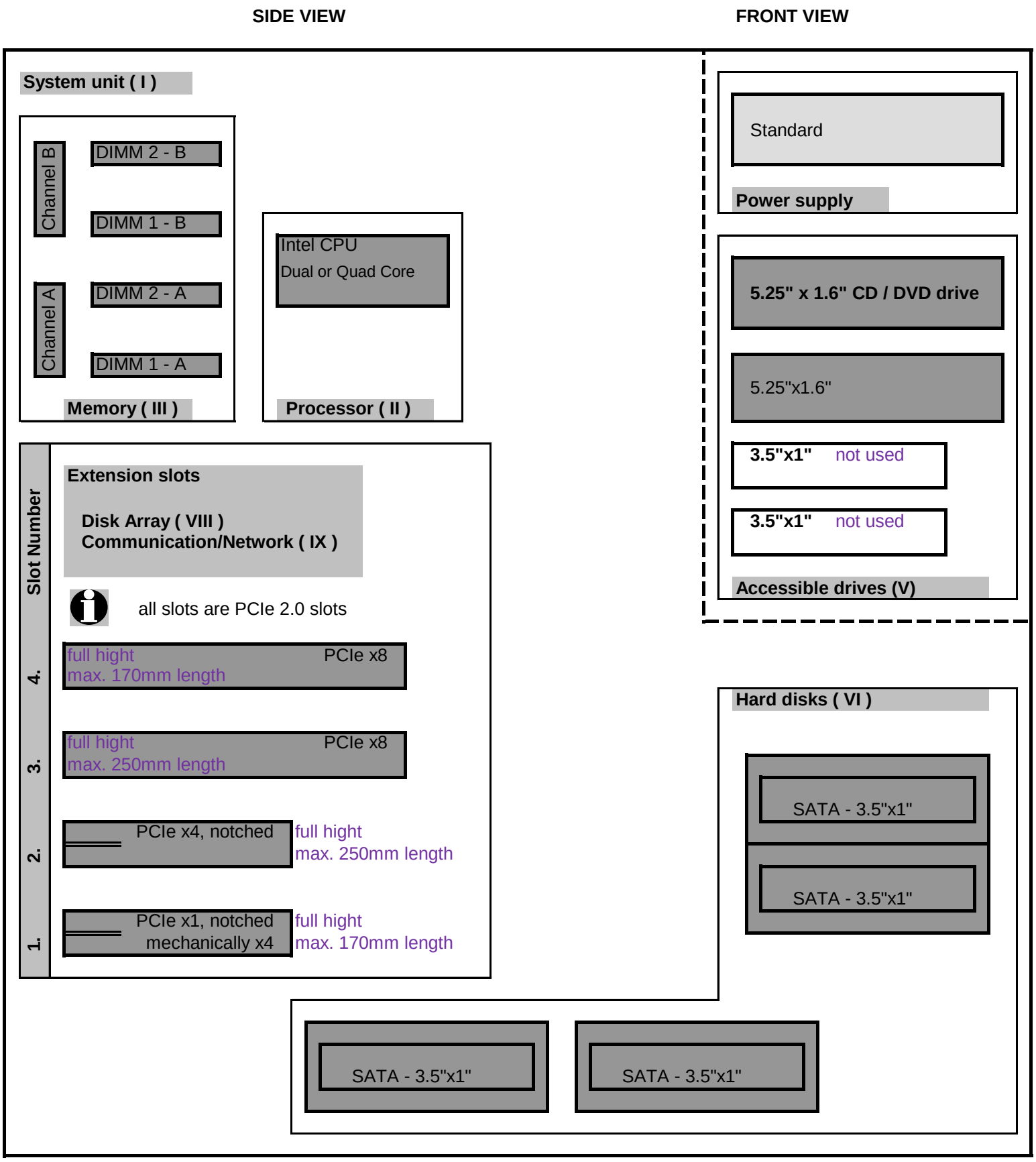
For further information see:

http://ts.fujitsu.com/products/standard_servers/index.html (internet)

https://partners.ts.fujitsu.com/com/order-supply/configurators/primergy_config/current/Pages/default.aspx (extranet)

Prices and availability see price list and PC-/ System-Architect
Subject to change and errors excepted

Configuration diagram PRIMERGY TX100 S3p



Key:

Included in basic unit

Option

Start PRIMERGY TX100 S3p

Software Configurator 32 bit

with OEM-Software
for PRIMERGY Server

without OEM-Software
for PRIMERGY Server

OEM-SW is bound to HW and
is not allowed to be ordered
separately.
Exception: VMware SW

VMware-Software
- VCMS VirtualCenter Management Server

For all SW products please refer to the corresponding software configurator accessible via
the Extranet under Configuration & Tools, -All configurations, -Software, URL see below.

Linux - Software **)
- Open Enterprise Server ***)
- SuSE Linux ES (OEM): LO
- SuSE Linux ES (Support): LS
- Red Hat EL (OEM): LO
- Red Hat EL (Support): LS

Microsoft - Windows Server 2008: W
- Windows Web Server 2008
- Windows Server 2008 Standard, Enterprise
- User, Device Client Access Licenses (CAL)
- Terminal Server Client Access Licenses (CAL)

Manageability Software: V)**
- Altiris Server Deployment

**Details eg. version numbers are published
in the separate SW-Configurator**

**Backup-Software /
Application-Software: U**
- ARCserve
- openSM2

****) Pay attention to release and order information in PRINCE -> Operating System**
https://partners.ts.fujitsu.com/com/products/servers/primergy/Pages/default.aspx

You'll find single software configurators and release lists (OS-matrix / system management / security) under following addresses:

for internal users: http://sp.ts.fujitsu.com/dmsp/docs/osrel.xlsx
for partners: https://partners.ts.fujitsu.com/com/products/servers/primergy/Pages/default.aspx

**Continue with PRIMERGY
HW configurator**

Start PRIMERGY TX100 S3p

Software Configurator 64 bit

with OEM-Software
for PRIMERGY Server

without OEM-Software
for PRIMERGY Server

OEM-SW is bound to HW and is not allowed to be ordered separately.

VMware-Software
- VCMS VirtualCenter Management Server

For all SW products please refer to the corresponding software configurator accessible via the Extranet under "Configuration & Tools, -All configurations, -Software, URL see below.

Microsoft - Windows Server 2008: W
- Windows Web Server 2008
- Windows Server 2008 Standard, Enterprise
- User, Device Client Access Licenses (CAL)
- Terminal Server Client Access Licenses (CAL)

Linux - Software *) **)
only x86_64
- SuSE Linux ES (OEM): LO
- SuSE Linux ES (Support): LS
- Red Hat EL (OEM): LO
- Red Hat EL (Support): LS

Microsoft - Windows Small Business Server 2008: ROK
- Windows Small Business Server 2008 Standard, Premium
- User, Device Client Access Licenses (CAL)

Details eg. version numbers are published in the separate SW-Configurator

**) Pay attention to release and order information in PRINCE -> Operating System
https://partners.ts.fujitsu.com/com/products/servers/primergy/Pages/default.aspx

You'll find single software configurators and release lists (OS-matrix / system management / security) under following addresses:

for internal users: http://sp.ts.fujitsu.com/dmsp/docs/osrel.xlsx
for partners: https://partners.ts.fujitsu.com/com/products/servers/primergy/Pages/default.aspx

Continue with PRIMERGY HW configurator

Start PRIMERGY TX100 S3p

Section | Basic unit

System unit consisting of:
*** Housing including standard power supply (no redundancy)**
*** Imprint of MAC Adress on system label and delivery note as standard**
*** heat sink for CPU**

Systemboard with:
*** 4 PCI expansion slots:**
1x PCIe x1, mechanically x4, notched (possible to plug x16 cards)
1x PCIe x4, notched; fits for lp (low profile) and fh (full high) formfactor cards
2x PCIe x8
all slots are PCIe 2.0 slots; PCIe 1.0 cards are fully supported as well
*** Slot for optional TPM module**
*** 4 memory slots for up to 32GB (1066MHz PC3 8500 / 1333MHz PC3 10600) unbuffered DDR III RAM (ECC)**
max. 8GB modul per slot
*** 2 bays 5.25" for accessible drives**
*** 4 LFF (3.5" Large Form Factor) bays 1" high for no hot plug SATA HD**
*** SATA controller with up to 4 HDD's using Intel 220 (Chipset)**
*** ATI ES1000 64MB**
1600 x 1200 pixel with 16 bit colours and 75 Hz
1280 x 1024 pixel with 16/32 bit colours and 120/75 Hz
1152 x 864 pixel with 16/32 bit colours and 160/100Hz
1024 x 768 pixel with 16/32 bit colours and 200/120Hz
800 x 600 and 640 x 480 pixel with 32 bit colours and 200Hz
*** Intel 10/100/1000 Mb/s ("Lewisville" 82579LM) on-board LAN**
*** Intel 10/100/1000 Mb/s ("Hartwell" 82574L) on-board LAN supporting WoL, PXE and iSCSI boot**

Cables included in Base Unit:
1. SATA cabel for CD/DVD
2. 4 x SATA cabel in basic unit (depends on base unit)

ServerView Suite Software package incl. ServerStart, ServerBooks, Management Software and Updates

External Interfaces:
1x RS-232-C (serial, 9 pins)

1x VGA (15 pins)
10x USB 2.0 (2x frontside, 4x rearside, 2x internal for backup devices, 1x internal USB Stick, 1x internal USSD / UFM)
1x LAN RJ45

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S26361-K1410-V103
SATA basic unit Floorstand without CPU and Memory
- one CPU / 1 to 4
Memory module(s) has to be selected via CPU / Memory order codes
standard PSU

S26361-K1410-V203
SATA basic unit Floorstand without CPU and Memory
- one CPU / 1 to 4
Memory module(s) has to be selected via CPU / Memory order codes
standard PSU
w/ 0-Watt function

The difference between
TX100 S3 and TX100 S3p
is only the CPU Support

TX100 S3p is needed for
Ivy Bridge Processors.

S26361-F3301-E6 for K1410-V103
S26361-F3301-E5 for K1410-V203
Energy Star 5.0 compliance
Limits configuration in accordance with Energy Star requirements
Put EPA conformity on Label
Use EPA specific BIOS settings
max. 1x per system

on special release only for 220V

Be aware of configuration Limits for Energy Star Configuration
Additional LAN Card is not supported. -> Use only on-board LAN.
Additional Graphic Card is not supported. -> Use only on-board graphics.
Max. 2HDD.
No SAS RAID Controller + iBBU. (V103 - Base Unit only)
If you need SAS RAID Controller use 0-Watt base unit (V203).

S26361-F3552-E1
TPM Module
Trusted Platform Module on Motherboard
Usage according to import restrictions
max. 1x per system

Be aware of import restrictions!
Only 1 TPM per system.
Loose delivery for later integration possible for customer.

S26361-F3552-L1
TPM Module add-on kit
for later integration (loose delivery)
Trusted Platform Module on Motherboard
Usage according to import restrictions
max. 1x per system

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Section II Processor

One of following CPU´s has to be selected for an orderable basic unit

Dual-Core CPU`s		
- 1x 64-bit Intel Celeron (2MB SLC), Pentium (3MB SLC) or Core-i3 (3MB TLC) occupies socket for one CPU		
Celeron		
Celeron G550 2.60GHz 2MB 2C/2T 1066MHz (65W)	**S26361-F3579-E255**	on special release
Pentium		
Pentium G640 2.80GHz 3MB 2C/2T 1066MHz (65W)	**S26361-F3579-E264**	
Core i3		
Core i3-3220 3.30GHz 3MB 2C/4T 1333MHz (55W)	**S26361-F3580-E222**	
Quad-Core XEON CPU`s		
- 1x 64-bit Intel Xeon UP (8MB shared TLC = Third Level Cache) Hyper-Threading; 1600 MHz DDR3 Bus and heat pipe occupies socket for one CPU		
Xeon E3-1220v2 3.10GHz 8MB 4C/4T 1600MHz Turbo (69W)	**S26361-F3580-E322**	
Xeon E3-1230v2 3.30GHz 8MB 4C/8T 1600MHz Turbo (69W)	**S26361-F3580-E323**	
Xeon E3-1240v2 3.40GHz 8MB 4C/8T 1600MHz Turbo (69W)	**S26361-F3580-E324**	on special release

Section III Memory

There are 2 memory banks with 2 DIMM slots each.

Single channel memory configuration allow maximum flexibility:
Additional memory can be configured as single memory modules.

Dual channel memory configurations for maximum performance:
For optimum performance memory has to be configured in pairs of memory modules with identical size.

max. 32GB unbuffered DDR3 RAM for UDIMMs with 8GB modules

Note: Memory is not included in the base unit and has to be configured separately, min 1x.**

Unbuffered (ub) DIMMs

4x

- One **DDR3-** ub ECC memory module, 1.5V	
Memory 2GB 1600 MHz	**S26361-F3719-E513**
Memory 4GB 1600 MHz	**S26361-F3719-E514**
Memory 8GB 1600 MHz	**S26361-F3719-E515**
Choose up to 4 order codes above.	

Section IV Graphics

Graphics Controller ATI ES1000 on board with 64 MB attached Memory

S26361-F2748-E537
PY VGA LP card 512MB PCI-e x1
NVIDIA NVS300 512 MB PCIe-x1
2x DVI or 2x VGA or 1x DVI plus 1x VGA cables adapters included
Dual head + fully 3-D supported for Windows OS only native driver support for Linux OS
full high bracket
max. 1x per system

The hight end optional NVIDIA NVS300 graphic card offers dual head operation and fully 3D video support.
The cables for either two times DVI or VGA connections are part of the delivery.
Remote Video direction via iRMC must be disabled.
This PCIe-x1 card can also be installed in any PCIe-x4, x8 or x16 slot.
Only one card per server is allowed.

PY VGA card must be installed in slot 2

S26361-F2748-L537
PY VGA LP card 512MB PCI-e x1
for loose delivery

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Section V Accessible drives

There are 2 drive bays (2x 5,25") for accessible drives.

as soon as available

S26361-F3266-E2	S26361-F3267-E2	S26361-F3641-E4
DVD-ROM 16/48x	DVD-RW 16x super multi drive	Blu-ray Triple Writer slim SATA
SATA incl. description (Ger/US)	all formats, DUAL/DL, DVD-RAM SATA	4x BD-RW, 8x DVD, 24x CD BD DL and all CD/DVD formats with mounting frame 0.5" -> 1.6"
1.6 x 5.25", black bezel	1.6 x 5.25", black bezel	1.6 x 5.25", black bezel
max. 1x per system	max. 1x per system	max. 1x per system

S26361-F3324-E4	S26361-F3325-E4	S26361-F3857-E4
Tape drive DDS Gen5 USB 5.25"	Tape drive DDS Gen6 USB 5.25"	RDX drive USB 5.25" internal
36GB, 3MB/s, USB 2.0 Connector: USB "B" with USB cable incl. description (Ger/US) data and cleaning cartridge	80GB, 6MB/s, USB 2.0 Connector: USB "B" with USB cable incl. description (Ger/US) data and cleaning cartridge	80-1.000GB, 25MB/s, USB 2.0 Connector: USB "B" with USB cable incl. description (Ger/US)
1.6 * 5.25", black bezel	1.6 * 5.25", black bezel	without RDX cartridges
max. 1x per system	max. 1x per system	1.6 * 5.25", black bezel
		max. 1x per system

RDX cartridges must be ordered separately
RDX 160GB = S26361-F3857-L160
RDX 320GB = S26361-F3857-L320
RDX 500GB = S26361-F3857-L500
RDX 1TB = S26361-F3857-L600 *
10x RDX160 = S26361-F3857-L169
10x RDX320 = S26361-F3857-L329

Following USB Components are available	
1) USB DVD SM / Blu-Ray	
External SuperMulti Drive	S26341-F103-L126
External Blu-Ray Drive	S26341-F103-L127
2) USB Memorybird:	
MyUSBS A910 8GB, MLC Flash	S26391-F6048-L208
MyUSBS A910 16GB, MLC Flash	S26391-F6048-L216
MyUSBS A910 32GB, MLC Flash	S26391-F6048-L232

* as soon as available

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Section VI RAID-Controller

TX100 S3p does not support SAS HDD:
- for use with SATA HDD only

S26361-F3554-E512
8 port SAS RAID Controller
LSI
MegaRAID SAS 2108
512MB Cache with ECC
SAS 6Gb/sec
8 internal ports
PCIe x8, 168mm
with combi bracket
max. 1x per system

For later upgrade to RAID you need to order S26361-F3554-L512 with the additional RAID cable TX100 S3p S26361-F3659-L2

S26361-F3257-E255
Cache Battery Backup Unit
max. 1x per Controller

L-Order-Number is:
S26361-F3257-L210

S26361-F3669-E1
RAID Ctrl SAS 6G 8port internal
Based on chip LSISAS2208
LSI MegaRAID
1GB Cache with ECC
RAID 0, 1, 10, 5, 50, 6, 60
optional FBU
Support for 3Gb/s and 6Gb/s
SATA and SAS hard drives
PCIe x8
Low-profile MD2 form factor
max. 1x per system

The FBU is an option for the controller which can be used once per controller. If the FBU option has been choosen, the TFM Module is needed once per FBU.

For loose delivery of TFM & FBU please order:
S26361-F3669-L100
TFM Module for FBU
and
S26361-F3669-L110
Flash Backup Unit
with 25cm, 55cm, 70cm cable set

S26361-F3669-E100
TFM Module for FBU option
max. 1x per Controller

S26361-F3669-E125
Flash Backup Unit
with 25cm cable set
max. 1x per Controller

Section VII Hard disk drives

There is a 6 port SATA controller in the Base Unit.
Up to 4 SATA LFF (3.5") hard disks can be configured.

4x

ECO SATA 6Gb/s HD 3.5" non hot plug	
250GB 7.200rpm,<9,0ms, 8MB Cache	**S26361-F3701-E250**
500GB 7.200rpm,<9,0ms, 8MB Cache	**S26361-F3701-E500**
Choose up to 4 order codes above.	

Business Critical (BC) SATA 6Gb/s HD 3.5" non hot plug		
500GB 7.200rpm,<9,0ms, 8MB Cache	**S26361-F3671-E500**	
1000GB 7.200rpm,<9,0ms, 8MB Cache	**S26361-F3671-E100**	
2000GB 7.200rpm,<9,0ms, 8MB Cache	**S26361-F3671-E200**	
3000GB 7.200rpm,<9,0ms, 8MB Cache	**S26361-F3671-E300**	as soon as available
Choose up to 4 order codes above.		

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Section VIII Communication / Network

2x

S26361-F3610-E2
Gigabit Ethernet Controller Dual 1000TX
Eth Ctrl 2x1Gbit PCIe x4 D2735 Cu
Intel Kawela based 2 port Server Adapter
PCIe x4,
ext: for RJ45-plug, Cat 5
max. 1x per system

Loose delivery with:
S26361-F3610-L502

S26361-F3516-E1
(Shelter Island)
Gigabit Ethernet Controller 1000TX
Eth Ctrl 1x1Gbit PCIe Gigabit CT DT Cu
Intel® Gigabit CT Desktop Adapter
PCIe x1
ext: for RJ45-connector, Cat 5
max. 2x per system

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Section IX Miscellaneous

Section X Country specific power cords, Keyboard, Mouse

USB keyboards for following countries:

USB standard Keyboard KB400		USB professional Keyboard KBPC PX ECO
S26381-K550-E170	Switzerland	S26381-K341-E170
S26381-K550-E104	Czech/Slovak	S26381-K341-E104
S26381-K550-E120	Germany	S26381-K341-E120
	Germany / Int	S26381-K341-E122
S26381-K550-E180	Spain	S26381-K341-E180
S26381-K550-E140	France	S26381-K341-E140
S26381-K550-E165	United Kingdom	S26381-K341-E165
S26381-K550-E185	Italy	S26381-K341-E185
S26381-K550-E154	Sweden / Finland	S26381-K341-E154
S26381-K550-E102	USA / international	S26381-K341-E110

Optional Mouse

S26381-K431-E100	Mouse M480 black
S26381-K431-E101	Mouse M480 grey

Power cord for floorstand versions for following countries:
1,8 m, grey

T26139-Y1740-E10	D, A, B, F, NL, FIN, N, S, E, P, RUS, TR
T26139-Y1742-E10	USA, Canada
T26139-Y1743-E10	Switzerland
T26139-Y1744-E10	UK, IR
T26139-Y1745-E10	Italy
T26139-Y1746-E10	Denmark
T26139-Y3850-E10	Option "no powercord", for Countries without specific cable orderable like e.g. China

S26361-F1452-E100	**S26361-F1452-E110**
REGION KIT EMEA AP	REGION KIT JP
For Shipments to EMEA / Asia and Pacific regions	For Shipments to Japan regions
1x per system	1x per system

Options and other peripherals
For other options, refer to SystemArchitect and Pricelist.
These options are supplied lose with the shipment.
For suitable peripherals for this product, please refer to SystemArcitect.

End PRIMERGY TX100 S3p

Change Report

Date	Order number	Changes
2012-04-27		Removed Core Edition Variants
2012-04-02	S26361-F3579-E264	Added new Pentium and Celeron CPU
2012-03-30		First Release